



Attorney's Docket No.: 12804-027001

DFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Bernard Moss et al.

Art Unit : 1645

Serial No. : 10/646,628

Examiner : R. Zeman

Filed : August 22, 2003

Title : MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as Represented by the Secretary, Department of Health and Human Services, and as represented by the National Institutes of Health by authority of the Department of Health and Human Services, a government agency, certifies that they are the assignee of 100% of the right, title and interest of Bernard Moss, Linda Wyatt and Patricia Earl in the patent application identified above by virtue of:

Assignment from Bernard Moss, Linda Wyatt and Patricia Earl, inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 014974, Frame 0687, on February 13, 2004 (copy enclosed).

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

June 1, 2005

Carrie A. Amonte

Signature

Carrie A. Amonte

Typed or Printed Name of Person Signing Certificate

Applicant : Bernard Moss et al.
Serial No. : 10/646,628
Filed : August 22, 2003
Page : 2 of 3

Attorney's Docket No.: 12804-027001

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Anita L. Meiklejohn, Ph.D.
Reg. No. 35,283
FISH & RICHARDSON P.C.
225 Franklin Street
Boston, MA 02110-2804

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

PTO Customer Number: 26161

Applicant : Bernard Moss et al.
Serial No. : 10/646,628
Filed : August 22, 2003
Page : 3 of 3

Attorney's Docket No.: 12804-027001

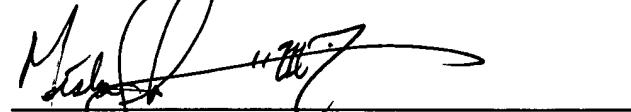
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

**UNITED STATES DEPARTMENT OF
HEALTH AND HUMAN SERVICES**

For:

Office of Technology Transfer
National Institutes of Health

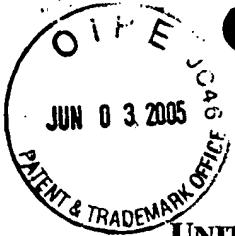


Michael Shmilovich

Date: May 17, 2005

Title: Technology Licensing Specialist

National Institutes of Health
Office of Technology Transfer
6011 Executive Blvd. Suite 325
Rockville, MD 20852



NIBI.001C1 MK
NWV

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 11, 2004

PTAS



KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

102670973A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/13/2004

REEL/FRAME: 014974/0687
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MOSS, BERNARD

DOC DATE: 02/02/2004

ASSIGNOR:
WYATT, LINDA

DOC DATE: 02/02/2004

ASSIGNOR:
EARL, PATRICIA

DOC DATE: 02/02/2004

ASSIGNEE:
GOVERNMENT OF THE UNITED STATES OF
AMERICA, AS REPRESENTED BY THE
SECRETARY, DEPARTMENT OF HEALTH
AND HUMAN SERVICES
6011 EXECUTIVE BLVD.
SUITE 325
ROCKVILLE, MARYLAND 20852-3804

014974/0687 PAGE 2

SERIAL NUMBER: 10646628

FILING DATE: 08/22/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES

THERESA FREDERICK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

02-18-2004



2-13-04

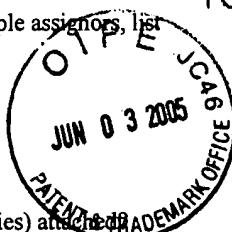
TO THE ASSISTANT COMMISSIONER FOR PAT.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

1. Bernard Moss
2. Linda Wyatt
3. Patricia Earl

Additional name(s) of conveying party(ies) attached?

() Yes (X) No



lents or copy thereof.

102670973

2. Name and address of receiving party(ies):

Name: Government of the United States of America, as
Represented by the Secretary, Department of Health and
Human Services

Internal Address: Suite 325

Street Address: 6011 Executive Blvd.

City: Rockville State: Maryland ZIP: 20852-3804

Additional name(s) of receiving party(ies) attached?

() Yes (X) No

3. Nature of conveyance:

(X) Assignment

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above)

1. February 2, 2004
2. February 2, 2004
3. February 2, 2004

4. Application number(s) or Patent number(s):

(X) Patent Application No.: 10/646,628
Filing Date: August 22, 2003

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Nancy W. Vensko
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995

Internal Address: Fourteenth Floor
Street Address: 2040 Main Street
City: Irvine State: CA ZIP: 92614
Attorney's Docket No.: NIH211.001C1

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h)): \$40

(X) Enclosed

(X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Nancy W. Vensko
Name of Person Signing

Signature

Date

2/10/04

2004 FEB 13 PM 3:52

OFFICE OF PUBLIC RECORDS

Total number of pages including cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:

02/17/2004 MAILER: 00000094 10646628
01 FC:8021 40.00 00
Mail Stop Assignment Recordation Services
Director, U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, we, Bernard Moss: 10301 Dickens Avenue, Bethesda, MD 20814; citizen: USA; Linda Wyatt: 11201 Huntover Drive, Rockville, MD 20852; citizen: USA; and Patricia Earl: 3520 Woodbine Street, Chevy Chase, MD 20815; citizen: USA; employees of the Department of Health and Human Services, have invented MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES, for which we have made application for Letters Patent of the United States Serial No. 10/646,628 Filed August 22, 2003, which claims the benefit of International Application No. PCT/US02/06713 filed March 1, 2002, which claims the benefit of U.S Provisional Application No. 60/274,434 filed March 8 2001;

WHEREAS, we are the applicants named in the above-identified application for Letters Patent;

WHEREAS, the conditions under which said invention was made are such at to entitle the Government under Paragraph 1(a) of Executive Order 10096 to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States is desirous of acquiring all domestic and foreign right, title and interest in the above-mentioned invention described in the application for Letters Patent; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America, as represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to said invention in the U.S. and within each and every foreign country in which the Government elects to file and the entire right, title and interest in and to such applications, and any continuations, continuations-in-part, divisions, reissues or extensions thereof, and including priority rights as may be filed in the U.S. and foreign countries, and such Letters Patent as may be granted to be held by the Government to the end of the term for which the same would have been held by the inventors had this assignment not been made.

We further agree to make, execute and deliver to the Secretary, Department of Health and Human Services, upon request, any and all papers, documents, affidavits or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist the Government in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by the Government.

Client Code : NIH211.001C1
Serial No. : 10/646,628
Filing Date : August 22, 2003

IN WITNESS WHEREOF, I hereunto set my hand and seal this 2 day of
Feb., 2004

Bernard Moss
Bernard Moss

STATE OF Maryland
COUNTY OF Montgomery ss.

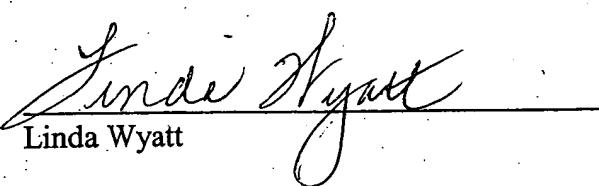
On this 2nd day of February 2004, before me, a Notary Public in and for the State and County aforesaid, personally appeared Bernard Moss, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Rita A. Capobianchi
Notary Public in and for the aforesaid County and State

My Commission Expires: Feb. 1, 2006

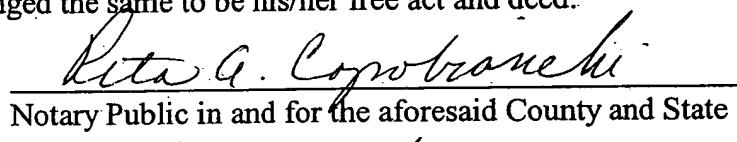
Client Code : NIH211.001C1
Serial No. : 10/646,628
Filing Date : August 22, 2003

IN WITNESS WHEREOF, I hereunto set my hand and seal this 2 day of
Feb, 2004


Linda Wyatt

STATE OF Maryland
ss.
COUNTY OF Montgomery

On this 2nd day of February, 2004 before me, a Notary Public in and for the State and County aforesaid, personally appeared Linda Wyatt, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.


Rita A. Copobranchi
Notary Public in and for the aforesaid County and State

My Commission Expires: February 1, 2006

Client Code : NIH211.001C1
Serial No. : 10/646,628
Filing Date : August 22, 2003

IN WITNESS WHEREOF, I hereunto set my hand and seal this 2 day of
Feb, 2004

Pat Earl
Patricia Earl

STATE OF Maryland
ss.

COUNTY OF Montgomery

On this 2nd day of February, 2004, before me, a Notary Public in and for the State and County aforesaid, personally appeared Patricia Earl, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Lita A. Cognobranchi
Notary Public in and for the aforesaid County and State

My Commission Expires: Feb. 1, 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Bernard Moss et al. Art Unit : 1645
 Serial No. : 10/646,628 Examiner : R. Zeman
 Filed : August 22, 2003
 Title : MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), Emory University, a university, certifies that they are the assignee of 100% of the right, title and interest of Harriet L. Robinson in the patent application identified above by virtue of:

Assignment from Harriet L. Robinson, an inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 014975, Frame 0742, on February 13, 2004 (copy enclosed).

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

 Date of Deposit June 1, 2005

 Signature Carrie A. Amonte

 Typed or Printed Name of Person Signing Certificate Carrie A. Amonte

Applicant : Bernard Moss et al.
Serial No. : 10/646,628
Filed : August 22, 2003
Page : 2 of 3

Attorney's Docket No.: 12804-027001

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Anita L. Meiklejohn, Ph.D.
Reg. No. 35,283
FISH & RICHARDSON P.C.
225 Franklin Street
Boston, MA 02110-2804

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

PTO Customer Number: 26161

Applicant : Bernard Moss et al.
Serial No. : 10/646,628
Filed : August 22, 2003
Page : 3 of 3

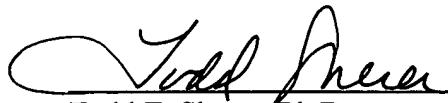
Attorney's Docket No.: 12804-027001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

EMORY UNIVERSITY

Date: 5.26.05



Todd T. Sherer, Ph.D.

Title: Assistant VP for Research & Director

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 11, 2004

PTAS



KNOBBE, MARTENS, OLSON ET AL.
NANCY W. VENSKO
2040 MAIN STREET
IRVINE, CA 92614

102670810A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/13/2004

REEL/FRAME: 014975/0742

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: NIH211001C1

ASSIGNEE:

ROBINSON, HARRIET L.
DOC DATE: 01/16/2004

EMORY UNIVERSITY
1380 SOUTH OXFORD ROAD
ATLANTA, GEORGIA 30322

SERIAL NUMBER: 10646628

FILING DATE: 08/22/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES

014975/0742 PAGE 2

VIOLET MCCOY, EXAMINER
ASSIGNMENT DIVISION
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02-18-2004

2-13-04



TO THE ASSISTANT COMMISSIONER FOR PAT

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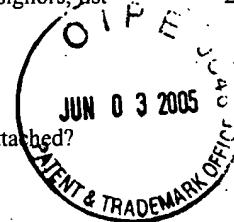
ents or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

Harriet L. Robinson

Additional name(s) of conveying party(ies) attached?

() Yes (X) No



2. Name and address of receiving party(ies):

Name: Emory University
 Street Address: 1380 South Oxford Road
 City: Atlanta State: Georgia ZIP: 30322

Additional name(s) of receiving party(ies) attached?
 () Yes (X) No

3. Nature of conveyance:

(X) Assignment

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) January 16, 2004

4. Application number(s) or Patent number(s):

(X) Patent Application No.: 10/646,628
 Filing Date: August 22, 2003

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:7. Total fee (37 CFR 1.21(h)): \$40

Name: Nancy W. Vensko
 KNORBE, MARTENS, OLSON & BEAR, LLP
 Customer No. 20,995

(X) Enclosed

Internal Address: Fourteenth Floor
 Street Address: 2040 Main Street
 City: Irvine State: CA ZIP: 92614
 Attorney's Docket No.: NIH211.001C1

(X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

6. Total number of applications and patents involved: 18. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Nancy W. Vensko
 Name of Person Signing

Signature

Date

2/10/04

OFFICE OF PUBLIC RECORDS

2004 FEB 13 PM 3:52

FINANCE SECTION

Total number of pages including cover sheet, attachments and document: 2

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
 Director, U.S. Patent and Trademark Office
 P.O. Box 1450
 Alexandria, VA 22313-1450

RECORDPA
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 020404

02/17/2004 LMUELLER 00000095 10646628

01 FC:8021

40.00 0P

Application No.: 10/646,628
Filing Date: August 22, 2003

ASSIGNMENT

WHEREAS, I, Harriet L. Robinson, a USA citizen, residing at 1051 Mason Woods Drive, Atlanta, GA 30329, have invented certain new and useful improvements in a MVA EXPRESSING MODIFIED HIV ENVELOPE, GAG, AND POL GENES for which I have filed an application for Letters Patent in the United States Serial No. 10/646,628 filed August 22, 2003, which claims the benefit of International Application No. PCT/US02/06713 filed March 1, 2002, which claims the benefit of U.S. Provisional Application No. 60/274,434 filed March 8, 2001;

AND WHEREAS, Emory University (hereinafter "ASSIGNEE"), a Georgia nonprofit corporation with offices located at 1380 South Oxford Road, Atlanta, GA 30322, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16 day of January, 2004

Harriet L. Robinson

Harriet L. Robinson

Harriet L. Robinson

STATE OF }
{} ss.
COUNTY OF }

On 1/16/04, before me, Gail J. McClure, personally appeared Harriet L. Robinson personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that they executed the same in their authorized capacity(ies), and that by their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Gail J. McClure
Notary Signature